

JAMAICA.

FEBRUARY 24, 1882.

No. 9.

WEATHER REPORT

FOR THE MONTH OF JANUARY,

1882.

FROM THE JAMAICA GAZETTE.

February 23rd, 1882.

WITH ADDITIONS AND CORRECTIONS.

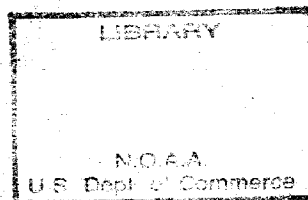
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1882
[Jan.-Aug]

JAMAICA:

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1882.



National Oceanic and Atmospheric Administration

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March 28, 2002

METEOROLOGICAL RESULTS FOR JANUARY, 1882.

KINGSTON:—		In.
Mean Pressure	...	30.067
" Temperature	...	74° 3
" Maximum Temp.	...	84° 8
" Minimum Temp.	...	66° 8
" Range of Temp.	...	18° 0
" Direction of the Wind	S.E. by S.	
" Velocity of the Wind	3.1 Miles per Hour	
" Temp. of the Dew-point	...	66° 1
" Humidity	...	77
" Percentage of Cloud	...	33
Total Rainfall in inches	...	0.44

Average Weather :—Fine and Dry.

The highest temperature was 89° 9 recorded on the 24th; the lowest was 62° 0. recorded on the 15th; the extreme range was therefore 27° 9.

THE RAINFALL FOR JANUARY 1882.

The average January Rainfall given in the second columns for different stations is taken from the article on Meteorology in the *Handbook of Jamaica*; and, as there explained, it applies to the January Rainfall during the ten years from 1870 to 1879 inclusive.

NORTH EASTERN DIVISION.

		JANUARY.	
		1882.	Average.
		In.	In.
Morant Point L. H.	St. Thomas	3.40	5.28
Hordley	...	7.43	...
Potosi	...	7.99	...
Boston	Portland	5.07	...
Port Antonio	...	8.11	...
Spring Garden	...	8.85	...
Chepstow	...	19.87	...
Cinchona Plantation	St. Andrew	2.78	10.60
New Haven Gap	...	16.70	...
Belle Vue	...	1.38	...
Stony Hill	...	1.78	...
Castleton Gardens	St. Mary	9.61	9.71
Annotto Bay	...	8.17	...
Water Valley	...	5.55	10.72
New Ramble	...	6.35	7.68
Gayle	...	18.85	...
Goshen	...	12.07	...
Rio Hoe	St. Ann	10.28	...
Unity Valley	...	2.60	7.63
Albion	...	4.50	6.15
Bradfield	...	5.35	8.24
Drax Hall	...	4.55	7.30
Seville	...	4.37	...
Richmond Estate	...	3.42	...
Llandoverly	...	5.18	...
Mean		7.16	8.15

NORTHERN DIVISION.

		JANUARY.	
		1882.	Average.
		In.	In.
Lillyfield	St. Ann	10.94	...
Home Castle	...	4.09	...
Richmond Pen	...	1.98	...
Colchis Pen	Trelawny	1.42	...
Mahogany Hall	...	1.70	...
Hopewell	...	4.22	7.21
Brampton Bryan	...	3.68	5.32
Bryan Castle	...	2.71	5.31
Nightingale Grove	...	3.74	...
Braco	...	1.07	5.01
Arcadia	...	2.95	...
Lancaster	...	2.10	5.12

NORTHERN DIVISION, Continued.

		JANUARY.	
		1882.	Average.
		In.	In.
Vale Royal	Trelawny	4.54	5.39
Hyde Hall	...	2.12	...
Swanswick	...	3.72	...
Long Pond	...	3.94	...
Hyde	...	2.39	...
Belmont Pen	...	2.62	...
Georgia	...	2.09	5.02
Steelfield	...	3.48	...
Etingdon	...	3.05	...
Oxford	...	2.45	...
Cambridge	...	2.83	...
Spring	...	1.69	...
Lottery	...	2.62	4.18
Falmouth	...	1.70	4.01
Holland	...	2.83	...
Golden Grove	...	1.05	...
Green Park	...	2.66	...
Tilston	...	2.06	...
Orange Valley	...	2.34	4.79
Kent	...	2.35	...
Dundee	...	2.95	5.31
Gales Valley	...	1.55	4.47
Hampden	St. James	2.36	...
Greenwood	...	3.02	...
Lima	...	...	...
Content	...	...	4.48
Guildsbro'	...	2.85	...
Spring Vale	...	0.95	5.65
Latium	...	...	...
Salter's Hill	...	...	5.03
Success	...	1.32	4.51
Running Gut	...	1.49	3.78
Tryall	...	1.47	...
Irwin	...	4.48	4.32
Ironshore	...	2.41	...
Providence	...	...	...
Catherine Hall	...	2.96	...
Catherine Mount	...	2.65	4.36
Fairfield	...	1.66	...
Mean		2.67	4.91

WEST CENTRAL DIVISION.

		JANUARY.	
		1882.	Average.
		In.	In.
Linstead	St. Catherine	1.40	...
Worthy Park	...	1.25	...
Chapelton	Clarendon	...	2.37
Pennants	...	0.97	...
Whitney	...	0.22	...
Cave Valley	St. Ann	0.00	2.95
Hanbury	Manchester	...	...
Mandeville	...	...	3.37
Marshall's Pen	...	1.29	...
Derry	...	...	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	0.71	...
Appleton	...	0.65	...
Maroon Town	St. James	1.67	...
Holland	St. Elizabeth	0.82	...
Y.S.	...	...	...
Ipwich	...	...	...
Kepp	...	3.08	...
Mount Charles	...	...	...
Mount Edgewcombe	Westmoreland	1.38	...
Windsor Forest	...	3.16	...
Kew Park	...	0.76	...

WEST CENTRAL DIVISION—continued.

		JANUARY.	
		1882.	AVERAGE.
		In.	In.
Chester Castle	Hanover	0.17	...
Burnt Ground	...	0.20	...
Kempshot	St. James	1.49	...
Anchovy	...	0.18	...
Wiltshire	...	0.71	...
Round Hill	Hanover	0.85	...
Cocoon Castle	...	1.05	...
Sod Hall Pen	...	0.28	...
Golden Grove	...	...	...
Tryall	...	0.96	...
Carawina	Westmoreland	1.50	...
Sweet River	...	2.45	...
Roaring River	...	...	...
Fort William	...	1.15	...
Cornwall	...	1.52	...
Windsor (Sav.-la-Mar)	...	1.31	...
Frome	...	2.43	...
Belle Isle	...	2.29	...
Retreat	...	1.59	...
Kew Estate	Hanover	0.16	...
Esher	...	1.05	...
Orange Cove	...	1.46	3.96
Prospect	...	2.54	...
Haughton Hall	...	3.15	...
Abingdon	...	1.20	...
Mean		1.25	3.16

SOUTHERN DIVISION.

		JANUARY.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	0.00	...
The Abbey	...	2.85	...
Halberstadt	St. Andrew	...	...
Hope Plantation	...	0.73	2.90
Cherry Garden	...	0.79	...
King's House	...	0.40	...
Monaltrie	...	0.80	1.56
Director of Roads Office, Kingston	...	0.29	1.78
Palisadoes Plantation	...	0.24	...
Plumb Point L. H.	...	...	1.16
Spanish Town	St. Catherine	0.14	...
Windsor Park	...	0.17	...
Hog Hole Pen	...	0.26	...
Headworks, R. C. C.	...	1.04	...
Cedars	...	0.90	...
Lodge Estate	...	...	...
Roden Pen	...	0.18	...
Halse Hall	Clarendon	0.87	...
Experiment	...	0.00	...
Greenwich	...	0.55	...
Yarmouth	...	...	...
Denbigh	...	0.96	1.75
Farm Plantation	Manchester	0.82	...
Great Valley	...	...	...
Pepper	St. Elizabeth	1.38	...
Long Hill	...	1.45	...
Gilnock Hall	...	...	...
Santa Cruz	...	0.00	...
Bloomsbury	...	1.44	...
Fullerswood Park	...	...	1.59
Industry	...	...	...
Black River	...	0.05	1.75
Hodges	...	0.25	...
Font Hill	...	0.26	...
Mean		0.64	1.78

COMPARATIVE TABLE.
(Based upon the "Average" Stations only.)
JANUARY.

		1882.	AVERAGE.
		In.	In.
North Eastern Division		4.96	8.15
Northern	"	2.50	4.91
West Central	"	0.94?	3.16
Southern	"	0.55	1.78
The Island		2.24	4.50

The Rainfall for January 1882 was therefore only about half the usual amount for that month; in a few places in the North-eastern Division which face the rain—bringing winds of winter, the rainfall was excessive:—as for instance at Chepstow, where 20 inches were recorded; while on the opposite and sheltered side of the Island, no rain fell at all at a few places.

COMPARISON OF THE MEAN RESULTS OF THE JANUARY
OBSERVATIONS AT KINGSTON AND THE CINCHONA
PLANTATIONS.

	KINGSTON.	CINCHONA PLANTATION.
	Inches.	Inches.
Bar. pressure 7 a.m.	30.085	25.311
" 3 p.m.	30.018	25.299
Temperature 7 a.m.	69°0	56°9
" 3 p.m.	83°3	64°0
Dew Point 7 a.m.	63.8	52.4
" 3 p.m.	69.9	57.3
Maximum Temperature	84.8	66.7
Minimum Temperature	66.8	55.5
Wind, direction	S.E. by S.	E. by N.
" miles per hour	3.1	6?

The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°—that of Kingston being further reduced to the Sea-level. The thermometers are similarly exposed at the two stations: their readings have all been corrected.

At Newhaven Gap the average maximum temperature was 69°8, and the average minimum temperature 49°2.

From Hordley Mr. Harrison writes me:—"The Aphides were travelling about in clouds during the evenings up to the 12th January. Since then they have very much abated but are still plentiful on young sprouts and ripening canes."

At 6 a.m., on the morning of the 22nd January a sharp shock of Earthquake was felt in the South-western part of St. Elizabeth.

At King's House the average maximum temperature was 88°7; the minimum was 63°3

At Worthy Park 83° and 58° respectively.

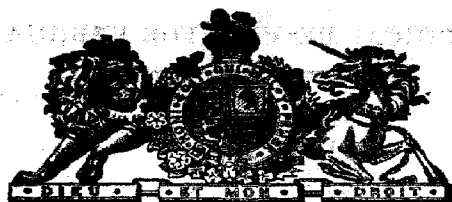
Kingston was remarkably healthy during January, the death-rate being only 28.6 per 1,000. There were 8 deaths from Diarrhoea in January and only 1 in December. The mean daily range of temperature in Kingston was 15°3, 17°0, and 18°0 during the months of November, December and January respectively.

MAXWELL HALL.

Kempshot, February 16th.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

MARCH 17, 1882.

No. 10.

WEATHER REPORT

FOR THE MONTH OF FEBRUARY,

1882.

FROM THE JAMAICA GAZETTE.

March 16th, 1882.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

JAMAICA:

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKES STREET, KINGSTON.

1882.

METEOROLOGICAL RESULTS FOR FEBRUARY 1882.

KINGSTON:—		In.
Mean Pressure	...	30.091
" Temperature	...	74°.0
" Maximum Temp.	...	84°.0
" Minimum Temp.	...	66°.6
" Minimum Temp. on Grass	...	60°.9
" Range of Temp.	...	17°.4
" Direction of the Wind	S.E. by E.	
" Velocity of the Wind	3.4 Miles per Hour	
" Temp. of the Dew-point	...	66°.0
" Humidity	...	78
" Percentage of Cloud	...	25
Total Rainfall in inches	...	0.28

Average Weather:—Fine and Dry.

The highest temperature was 88°.6 recorded on the 17th; the lowest was 61°.5 recorded on the 6th; the extreme range was therefore 27°.1. The lowest temperature on the grass was 57°.1 on the 5th.

THE RAINFALL FOR FEBRUARY 1882.

The average February Rainfall given in the second columns for different stations is taken from the article on Meteorology in the *Handbook of Jamaica*; and, as there explained, it applies to the February Rainfall during the ten years from 1870 to 1879, inclusive.

NORTH EASTERN DIVISION.

		FEBRUARY.	
		1882.	Average.
		In.	In.
Morant Point L. H.	St. Thomas	2.47	2.98
Hordley	...	1.62	...
Potosi	...	3.57	...
Boston	Portland	4.05	...
Port Antonio	...	2.97	...
Spring Garden	...	7.43	...
Chepstow	...	9.74	...
Cinchona Plantation	St. Andrew	...	2.56
New Haven Gap	...	...	...
Belle Vue	...	1.27	...
Stony Hill	...	1.98	...
Castleton Gardens	St. Mary	5.74	2.09
Annotto Bay	...	1.26	...
Water Valley	...	...	3.68
New Ramble	...	2.20	4.25
Gayle	...	...	...
Goshen	...	3.56	...
Rio Hoe	St. Ann	4.76	...
Unity Valley	...	2.45	2.34
Albion	...	2.33	3.30
Bradfield	...	2.83	4.57
Drax Hall	...	1.42	4.52
Seville	...	1.38	...
Richmond Estate	...	1.35	...
Llandoverly	...	1.82	...
Mean	...	3.15	3.37

NORTHERN DIVISION.

		FEBRUARY.	
		1882.	Average.
		In.	In.
Lillyfield	St. Ann	4.04	...
Home Castle	...	1.90	...
Richmond Pen	...	1.43	...
Colchia Pen	Trelawny	0.40	...
Mahogany Hall	...	0.92	...
Hopewell	...	1.48	2.22
Brampton Bryan	...	1.11	1.64
Bryan Castle	...	1.32	1.94
Nightingale Grove	...	0.68	...
Braco	...	0.54	2.21
Arcadia	...	1.18	...
Lancaster	...	0.78	2.32
Vale Royal	...	1.65	2.73

NORTH EASTERN DIVISION—continued.

		FEBRUARY.	
		1882.	AVERAGE.
		In.	In.
Hyde Hall	Trelawny	1.66	...
Swanswick	...	1.69	...
Long Pond	...	1.95	...
Hyde	...	1.50	...
Belmont Pen	...	1.18	...
Georgia	...	0.56	2.53
Steelfield	...	1.26	...
Ettingdon	...	1.04	...
Oxford	...	0.91	...
Cambridge	...	1.48	...
Spring	...	0.73	...
Lottery	...	1.22	2.02
Falmouth	...	0.94	1.50
Holland	...	0.82	...
Golden Grove	...	0.20	...
Green Park	...	0.78	...
Tilston	...	0.61	...
Orange Valley	...	1.21	2.57
Kent	...	0.69	...
Dundee	...	0.96	2.57
Gales Valley	...	0.30	1.97
Hampden	St. James	0.85	...
Greenwood	...	0.64	...
Lima	...	0.40	...
Content	...	0.85	2.21
Guilbro'	...	1.90	...
Spring Vale	...	1.17	2.04
Latium	...	2.10	...
Salters Hill	...	...	2.86
Success	...	0.46	1.84
Running Gut	...	0.75	1.43
Tryall	...	0.60	...
Irwin	...	1.83	1.45
Ironshore	...	0.70	...
Providence	...	0.72	...
Catherine Hall	...	1.25	...
Catherine Mount	...	1.23	1.63
Fairfield	...	1.15	...
Mean	...	1.10	2.09

WEST CENTRAL DIVISION.

		FEBRUARY.	
		1882.	AVERAGE.
		In.	In.
Linstead	St. Catherine	...	...
Worthy Park	...	...	...
Chapelton	Clarendon	0.68	2.88
Pennants	...	...	...
Whitney	...	...	...
Cave Valley	St. Ann	2.47	2.66
Manville	Manchester	...	...
Marshall's Pen	...	1.39	...
Derry	...	1.20	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	4.53	...
Appleton	...	2.13	...
Maroon Town	St. James	1.66	...
Holland	St. Elizabeth	2.34	...
Y.S.	...	...	...
Ipswich	...	...	...
Kepp	...	4.38	...
Mount Charles	...	...	...
Mount Edgcombe	Westmoreland	1.57	...
Windsor Forest	...	2.54	...
Kew Park	...	3.18	...
Chester Castle	Hanover	2.74	...
Copse	...	3.32	...

WEST-CENTRAL DIVISION, Continued.

		FEBRUARY.	
		1882.	Average.
		In.	In.
Burnt Ground	Hanover	0.88	...
Haughton Grove	...	1.61	...
Kempshot	St. James	1.86	...
Anchovy	...	0.33	...
Wiltshire	...	1.97	...
Round Hill	...	0.50	...
Cacoon Castle	...	1.01	...
Sod Hall Pen	...	1.30	...
Golden Grove	Hanover	2.05	...
Tryall	...	0.30	...
Carawina	Westmoreland	...	...
Sweet River	...	2.05	...
Roaring River	...	4.24	...
Fort William	...	0.55	...
Cornwall	...	1.95	...
Windsor (Sav.-la-Mar)	...	1.85	...
Frome	...	2.86	...
Belie Isle	...	2.94	...
Retreat	...	3.19	...
Kew Estate*	Hanover	...	...
Esher	...	...	...
Orange Cove	...	0.36	2.49
Prospect	...	1.12	...
Haughton Hall	...	0.58	...
Abingdon	...	...	...
Mean		1.95	2.62

SOUTHERN DIVISION.

		FEBRUARY.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	0.00	...
The Abbey	...	1.58	...
Halberstadt	St. Andrew	...	...
Hope Plantation	...	0.65	1.13
Cherry Garden	...	0.95	...
King's House	...	0.74	...
Monaltrie	...	0.40	1.21
Director of Roads' Office, Kingston	...	...	1.02
Palisades Plantation	...	1.34	...
Plumb Point L. H.	...	1.52	1.04
Spanish Town	St. Catherine	...	...
Windsor Park	...	...	...
Hog Hole Pen	...	...	...
Headworks, R. C. C.	...	...	...
Cedars	...	...	...
Lodge Estate	...	...	...
Roden Pen	...	0.41	...
Halse Hall	Clarendon	...	...
Experiment	...	1.05	...
Greenwich	...	...	...
Yarmouth	...	...	...
Denbigh	...	...	1.64
Farm Plantation	Manchester	1.29	...
Great Valley	...	...	...
Pepper	St. Elizabeth	0.92	...
Long Hill	...	1.41	...
Gilnock Hall	...	5.66	...
Santa Cruz	...	3.00	...
Bloomsbury	...	4.32	...
Fullerswood Park	...	...	1.28
Industry	...	...	...
Black River	...	3.78	1.85
Hodges	...	1.25	...
Font Hill	...	0.91	...
Mean		1.64	1.31

COMPARATIVE TABLE.
(Based upon the "Average" Stations only.)

		FEBRUARY.	
		1882.	AVERAGE.
		In.	In.
North Eastern Division		2.78	3.37
Northern	"	1.02	2.09
West Central	"	1.17	2.62
Southern	"	1.50	1.31
The Island		1.62	2.35

The Rainfall for February was therefore a little below the average for each division excepting the Southern: in the Southern Division the Rainfall was a little above the average, and this was due to thunderstorms near Black River. There were thunderstorms also in Westmoreland; but elsewhere, especially in the North-Eastern Division, there were continual drizzles. In this Division these drizzles have done much harm by permitting the growth and development of different kinds of blight among Bananas and Canes.

At Plumb Point Light House the upper gauge is 68 feet above the lower; these gauges registered 1.45 and 1.52 inches respectively.

Among the Meteorological Results for this month will be found a new element, namely, the mean minimum temperature as shown by a thermometer placed upon short grass and fully exposed to the sky. This element is useful in the more temperate climates where frosts occur; but as it is affected by the length of the grass and other varying circumstances of exposure, it is of no great scientific value. We notice that the mean lowest temperature on the grass was between 5° and 6° below that of the air four feet six inches above the ground, as determined by thermometers kept in a Stevenson screen; this difference is a little smaller than in England. According to Mr. Glaisher's observations in England, a thermometer one foot above the ground reads 7.3° higher than a thermometer on the ground, both fully exposed to the sky, and the ground covered with grass. Eight feet above the ground a thermometer reads 8.3° higher, and then the increment practically ceases. The chief variation is therefore between one foot and the surface, and it is due to the settling down of the colder and heavier air.*

From Hordley Mr. Harrison writes me:—"Aphides have done much damage to the cane sprouts during the past month, several acres having died out; and unless the Aphides leave us, many more will follow."

"This cane-pest is showing itself in the Matanzas. Mr. Consul Carden's last report in Cuba according to the *Planters' Gazette* of 1st February 1882, states:—"It is unfortunately to be feared that these insects will soon spread widely. . . . The plants attacked by them soon begin to decay, and die in a few days. . . . It is called 'there the *Coccus saccharis*.'"

From Buff Bay, Mr. W. Bancroft Espeut has written me the following important letter, dated 2nd March:—"The weather here has been most peculiar for some months. No sun-light. The percentage of cloud and cloudy days is I am sure very far above the average; and the effect of this absence of sun-light is most injurious to agriculturists. The Canes especially will not ripen and the Bananas remain in *statu quo*, and take four times as long to mature as we know them to have done in sunny weather."

"Worse than this too is the marvellous prevalence of a fungoid growth—evidently a *Capnodium*—if not *C. citre*, very closely allied to it. The Canes, Guava trees, Rose apples, Guinea and other grasses, Lime and Orange trees, and indeed almost all vegetation is affected by it. Some of the leaves are as black as if they had been smeared with shoe-blackening. This fungus is averting the growth

* Record of February rainfall lost in the fire on the 1st March. * Handbook of Jamaica, p. 84.

of all vegetation remarkably, and causes me great anxiety in respect to Canes.

"There is also a lot of another fungus—what I know not—as it is visible only in the *Mycelium* stage, which is affecting the Bananas all along the coast. It does not appear badly on lands in the interior, and prevails worst on those with a marl or chalk subsoil.

"Added to these terrible pests in the fungus line, we are smothered with the green Aphis which infests all stages of canes from the youngest plant—sprouts to the ripe cane—or rather to the aged cane—for ripe canes we are without from want of sunshine. I have been here twelve years now and have never seen anything to approach the present visitation of the Aphis; and this *Capnodium* is altogether a new infliction; there are patches of it on the road leading from Buff Bay to Cedar Valley where the Guava and other bushes look as if they had been dusted with soot, and the color of the vegetation is entirely concealed by this dense black coating.

"There can be no doubt that the fungus, and probably the Aphis too, are due to the damp, heavy, clouded state of the weather. The Rainfall has not gauged much, but it has resulted from continuous drizzles. We have not had a good down-pour once, only nasty misty drizzles, just the weather for fungi and insect life.

"I shall be glad to hear if this *Capnodium* has appeared in other districts, and whether the large visitation of Aphis is confined to this eastern coast. With the *Mycelium* of the Banana I am still experimenting and will write you further."

A light shock of Earthquake was felt in Kingston and at the Abbey in St. David at 2 a.m. on the morning of the 3rd February. It was accompanied by a low rumbling sound, and consisted of a few horizontal oscillations lasting one or two seconds. The following data are required to continue the *First Report on Earthquakes*, No. 4 of the series of reprints from the "Jamaica Gazette."

BAR. COR. AND REDUCED.

		IN.
24 hours before	-	30.081
16 "	-	30.101
8 "	-	30.094
At time of shock	-	30.084
8 hours after	-	30.075
16 "	-	30.018
24 "	-	30.015

In this case the first wave passed about 16 hours before the shock, as in the last case on the night of the 26th December; but instead of the barometer rising after the depression at the time of the shock, it continued to fall during the 3rd and 4th. This fall was due to causes totally unconnected with the present subject; we require a 'steady' barometer to show these seismic variations.

TOTAL MILES OF WIND.

Feb. 1st	58	94
" 2nd	130	130
" 3rd	131	138
" 4th	144	

It thus appears that the check to the wind occurred the day before the shock; a similar case occurred on the 16th July, 1880.

TEMPERATURE OF THE AIR

	MIN.	MEAN.	MAX.
Feb 1st	67°.5	75°.3	85°.0
" 2nd	64.9	72.3	83.8
" 3rd	64.7	75.9	84.4
" 4th	71.0	77.9	84.5

As usual the mean temperature was a little lower about the time of the shock than before or afterwards.

CLOUDS AND RAIN.

	CLOUD. PER CENT.	RAIN. INCHES.
Feb. 1st	17	0.00
" 2nd	7	0.00
" 3rd	50	0.00
" 4th	23	0.00

It was most curious to observe how the clouds (stratus) collected over Kingston after this shock, which in most respects and this one in particular, has fully confirmed the meteorological characteristics of the eleven preceding shocks.

At King's House the average maximum temperature was 89°.7; the minimum was 63°.0.

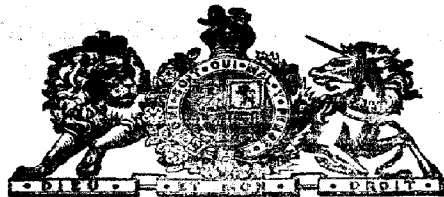
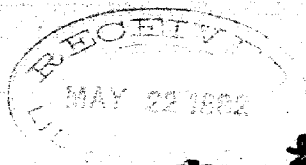
At Worthy Park —° and —° respectively.

MAXWELL HALL.

Kempshot, March 9th.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

APRIL 29, 1882.

No. 11.

WEATHER REPORT

FOR THE MONTH OF MARCH,

1882.

FROM THE JAMAICA GAZETTE.

April 27th, 1882.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

J A M A I C A :

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1882.

METEOROLOGICAL RESULTS FOR MARCH 1882.

KINGSTON:—		In.
Mean Pressure	...	30.080
" Temperature	...	74°.8
" Maximum Temp.	...	84°.1
" Minimum Temp.	...	67°.6
" Minimum Temp. on Grass	...	62°.0
" Range of Temp.	...	16°.5
" Direction of the Wind	...	S.E. by
" Velocity of the Wind	3.3 Miles per Hour	
" Temp. of the Dew-point	...	67°.4
" Humidity	...	79
" Percentage of Cloud	...	31

Total Rainfall in inches

1.23

Average Weather :—Cloudy at the beginnin.
of the month. afterwards fine.

The highest temperature was 87°.5 recorded on the 18th; the lowest was 64°.9 recorded on the 12th; the extreme range was therefore 22°.6. The lowest temperature on the grass was 58°.4, recorded on the 19th.

THE RAINFALL FOR MARCH 1882.

The average March Rainfall, given in the second columns for different stations, is taken from the article on Meteorology in the *Handbook of Jamaica*; and, as there explained, it applies to the March Rainfall during the ten years from 1870 to 1879, inclusive.

NORTH EASTERN DIVISION.

		MARCH.	
		1882.	Average.
		In.	In.
Morant Point L. H.	St. Thomas	3.04	2.14
Hordley	...	5.36	...
Potosi	...	6.22	...
Boston	Portland	9.21	...
Port Antonio	...	7.71	...
Spring Garden	...	...	...
Chepstow	...	...	...
Cinchona Plantation	St. Andrew	4.09	8.83
New Haven Gap	...	5.45	...
Belle Vue	...	1.91	...
Stony Hill	...	5.22	...
Castleton Gardens	St. Mary	2.87	4.73
Annotto Bay	...	3.92	...
Water Valley	...	5.36	4.80
New Ramble	...	3.56	6.55
Gayle	...	5.30	...
Goshen	...	...	...
Rio Hoe	St. Ann	6.44	...
Unity Valley	...	7.68	4.97
Albion	...	2.39	4.13
Bradfield	...	3.42	5.58
Drax Hall	...	5.78	4.04
Seville	...	4.24	...
Richmond Estate	...	2.58	...
Llandoverly	...	1.96	...
Mean		4.24	5.09

NORTHERN DIVISION.

		MARCH.	
		1882.	Average.
		In.	In.
Lillyfield	St. Ann	5.19	...
Home Castle	...	1.25	...
Richmond Pen	...	4.95	...
Colchis Pen	Trelawny	5.06	...
Mahogany Hall	...	2.16	...
Hopewell	...	2.53	3.06
Brampton Bryan	...	2.07	2.40
Bryan Castle	...	2.11	2.34
Nightingale Grove	...	2.39	...
Braco	...	3.65	2.10
Arcadia	...	3.20	...
Lancaster	...	3.92	2.56
Vale Royal	...	4.07	2.66

NORTHERN DIVISION—continued.

		MARCH.	
		1882.	AVERAGE.
		In.	In.
Hyde Hall	Trelawny	2.78	...
Swanswick	...	3.63	...
Long Pond	...	4.99	...
Hyde	...	5.70	...
Belmont Pen	...	1.81	...
Georgia	...	8.68	2.42
Steelfield	...	3.43	...
Etingdon	...	4.20	...
Oxford	...	3.87	...
Cambridge	...	2.30	...
Spring	...	4.13	...
Lottery	...	3.85	2.32
Falmouth	...	2.38	2.03
Holland	...	3.02	...
Golden Grove	...	2.80	...
Green Park	...	2.53	...
Tilston	...	2.94	...
Orange Valley	...	0.51	2.23
Kent	...	0.87	...
Dundee	...	1.82	3.22
Gales Valley	...	2.20	2.35
Hampden	St. James	1.53	...
Greenwood	...	0.60	...
Linna	...	...	...
Content	...	...	3.01
Gullsbro'	...	2.00	...
Spring Vale	...	3.30	3.77
Latium	...	...	...
Salters Hill	...	...	3.09
Success	...	1.39	2.30
Running Gut	...	1.70	1.60
Tryall	...	1.00	...
Irwin	...	...	2.62
Ironshore	...	2.30	...
Providence	...	...	...
Catherine Hall	...	0.57	...
Catherine Mount	...	0.46	1.77
Fairfield	...	1.14	...
Mean		2.54	2.52

WEST CENTRAL DIVISION.

		MARCH.	
		1882.	AVERAGE.
		In.	In.
Linstead	St. Catherine	3.79	...
Worthy Park	...	...	...
Chapelton	Clarendon	...	3.89
Pennants	...	3.18	...
Whitney	...	4.26	...
Cave Valley	St. Ann	4.31	4.51
Hambury	Manchester	...	...
Mandeville	...	...	4.76
Marshall's Pen	...	2.95	...
Derry	...	...	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	7.26	...
Appleton	...	5.92	...
Maroon Town	St. James	4.57	...
Holland	St. Elizabeth	4.92	...
Y.S.	...	...	...
Ipswich	...	...	...
Kepp	...	5.78	...
Mount Charles	...	6.65	...
Mount Edgecombe	Westmoreland	4.50	...
Windsor Forest	...	4.94	...
Kew Park	...	3.07	...
Chester Castle	Hanover	3.54	...
Copae	...	2.52	...

WEST CENTRAL DIVISION, Continued.

		MARCH.	
		1882.	Average
		In.	In.
Burnt Ground	Hanover	...	...
Haughton Grove	...	3.54	...
Kempshot	St. James	2.68	...
Anchovy	...	2.23	...
Wiltshire	...	3.19	...
Round Hill	Hanover	0.35	...
Cocoon Castle	...	1.27	...
Sod Hall Pen	...	...	...
Golden Grove	...	...	...
Tryall	...	0.40	...
Carawina	Westmoreland	4.21	...
Sweet River	...	5.32	...
Roaring River	...	6.20	...
Fort William	...	8.56	...
Mesopotamia	...	6.25	...
Cornwall	...	2.75	...
Windsor (Sav.-la-Mar)	...	4.65	...
Frome	...	5.13	...
Belle Isle	...	3.69	...
Retreat	...	6.35	...
Kew Estate	Hanover	4.75	...
Esher	...	0.61	...
Orange Cove	...	0.58	2.64
Prospect	...	3.06	...
Haughton Hall	...	...	...
Abingdon	...	3.41	...
Mean		2.80	3.95

SOUTHERN DIVISION.

		MARCH.	
		1882.	Average.
		In.	In.
Allison Hospital	St. Thomas	0.30	...
The Abbey	...	1.50	...
Halberstadt	St. Andrew	5.35	...
Hope Plantation	...	2.12	2.61
Cherry Garden	...	2.30	...
King's House	...	1.62	...
Monaltrie	...	2.51	1.60
Director of Roads' Office, Kingston	...	1.42	1.47
Palisades Plantation	...	1.27	...
Plumb Point L. H.	...	1.32	0.94
Spanish Town	St. Catherine	2.76	...
Windsor Park	...	2.35	...
Hog Hole Pen	...	1.67	...
Headworks, R. C. C.	...	1.55	...
Cedars	...	3.72	...
Lodge Estate	...	1.21	...
Roden Pen	...	4.18	...
Halse Hall	Clarendon	...	...
Experiment	...	...	...
The Bog	...	3.82	...
Greenwich	...	2.45	...
Yarmouth	...	...	...
Donbigh	...	1.40	2.33
Farm Plantation	Manchester	3.75	...
Great Valley	...	...	...
Pepper	St. Elizabeth	6.14	...
Long Hill	...	4.65	...
Gilnock Hall	...	6.36	...
Santa Cruz	...	4.00	...
Bloomsbury	...	5.07	...
Fullerswood Park	...	...	2.66
Industry	...	...	...
Black River	...	3.55	2.44
Hodges	...	2.95	...
Font Hill	...	...	...
Mean		2.31	2.01

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		MARCH.	
		1882.	AVERAGE.
		In.	In.
North Eastern Division		4.24	5.09
Northern	"	2.54	2.52
West Central	"	2.80?	3.95
Southern	"	2.31	2.01
The Island		2.97	3.39

The Rainfall for March was therefore nearly the average; there were thunderstorms in the Western half of the Island during the first part of the month, accompanied as usual by rain, but the latter part of the month was dry throughout the Island.

At Potosi in St. Thomas a squall from the North occurred on the 23rd, which did some slight damage to trees and roofs.

At Plumb Point Light House the upper gauge is 68 feet above the lower, these gauges registered 1.07 and 1.32 inches respectively.

From Hordley Mr. Harrison writes me:—"The first two weeks of the month the Aphides were very heavy on the canes, but suddenly disappeared between the 21st and 26th: there are scarcely any to be seen at this moment (3rd April)."

Last month Mr. W. B. Escent wrote about different kinds of blight then prevalent at Buff Bay; in a subsequent letter he writes:—"I am quite satisfied that both these pests (Aphis and Capnodium) result from the peculiar state of the weather, because in other years I have observed that much smaller quantities of Aphis have been put to death on the return of bright hot weather; and, oddly enough, I have noticed that whenever there was a thunderstorm and much lightning, the Aphides died by thousands."

This is also the opinion of Mr. Harrison: but this year the Aphis disappeared at Hordley without any apparent cause, judging from Mr. Harrison's silence on this all-important point.

Comparison of the mean results of the March observations at Kingston and the Cinchona Plantation.

		Kingston.	Cinchona Plan.
		In.	In.
Bar. pressure	7 a.m.	30.097	25.308
"	3 p.m.	30.033	25.291
Temperature	7 a.m.	70° 9	58° 3
"	3 p.m.	82.2	61.5
Dew point	7 a.m.	65.7	51.8
"	3 p.m.	69.4	58.6
Maximum Temperature		81.1	61.9
Minimum Temperature		67.6	54.9
Wind, direction		S.E. by S.	N.E. by E.
" Miles per hour		3.3	6.4

The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°, that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the two Stations: their readings have all been corrected.

At New Haven Gap the mean Maximum and Minimum Temperatures were 64° 9 and 54° 9 respectively.

A light shock of Earthquake was felt at Annotto Bay and at the Cinchona Plantation at 4.20 a.m. on the 2nd March.

Another light shock was felt in Kingston between 9 and 9.30 p.m. on the 15th March.

The following data are required to continue the First Report on Earthquakes, No. 4 of the Series of reprints from the "Jamaica Gazette".

BAR. COR. AND REDUCED.

		IN.
24 hours before	-	30.111
16 "	-	30.105
8 "	-	30.085
At time of shock	-	30.056
8 hours after	-	30.054
16 "	-	30.026
24 "	-	30.054

TOTAL MILES OF WIND.

March. 14th	41
" 15th	29
" 16th	50

TEMPERATURE OF THE AIR.

	MIN.	MEAN.	MAX.
March. 14th	67°.1	74°.2	82°.8
" 15th	66.6	74.4	85.1
" 16th	67.9	76.4	85.7

CLOUDS AND RAIN.

	CLOUD. PER CENT.	RAIN. INCHES.
March. 14th	3	0.00
" 15th	33	0.00
" 16th	27	0.00

For this Shock although the Barometer fell as usual, the fall continued until 16 hours after ; but as a compensation, the decrease of Wind and the increase of Cloud are in accordance with all previous results ; again, the indications of temperature are uncertain ; the readings however are low, as usual.

At King's House the average maximum temperature was 89°.9 ; the minimum was 63°.7.

Kingston was very healthy during March, the death-rate being 31.5 per thousand : there were 16 deaths from Phthisis, however. Deaths from this cause seem to depend almost entirely upon the amount of Wind during the preceding month and the temperature ; thus for March the computed or probable number of deaths from Phthisis was 17. This matter will be referred to again.

MAXWELL HALL.

Kempshot, April 20th.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

MAY 27, 1882.

No. 12

(12)

WEATHER REPORT

FOR THE MONTH OF ~~MAY~~ *APRIL*,
1882.

FROM THE JAMAICA GAZETTE.

May 25th, 1882.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKES STREET, KINGSTON.

1882.

April METEOROLOGICAL RESULTS FOR MAY 1882.

METEOROLOGICAL RESULTS FOR APRIL, 1882.

NORTHERN DIVISION—continued.

KINGSTON:—		In.
Mean Pressure	...	30.020
" Temperature	...	77°.9
" Maximum Temp.	...	84°.7
" Minimum Temp.	...	70°.1
" Minimum Temp. on Grass	...	64°.5
" Range of Temp.	...	14°.6
" Direction of the Wind	S.E. by S.	
" Velocity of the Wind	4.5 Miles per Hour	
" Temp. of the Dew-point	...	69°.4
" Humidity	...	76
" Percentage of Cloud	...	26

Total Rainfall in inches

0.15

Average Weather:—Fair, with strong sea breezes.

The highest temperature was 89°.6 recorded on the 18th; the lowest was 66°.8 recorded on the 24th; the extreme range was therefore 22°.8. The lowest temperature on the grass was 60°.2, recorded on the 24th.

THE RAINFALL FOR APRIL 1882.

The average April Rainfall, given in the second columns for different stations, is taken from the article on Meteorology in the *Handbook of Jamaica*; and, as there explained, it applies to the April Rainfall during the ten years from 1870 to 1879 inclusive.

NORTH EASTERN DIVISION.

		APRIL.	
		1882.	Average.
		In.	In.
Morant Point L. H.	St. Thomas	1.56	3.90
Hordley	...	2.23	...
Leith Hall	...	0.00	...
Potosi	...	2.30	...
Boston	Portland	2.46	...
Port Antonio	...	3.20	...
Spring Garden	...	1.33	...
Chepstow	...	0.86	...
Woodstock	...	0.35	...
Cinchona Plantation	St. Andrew	1.55	9.34
New Haven Gap	...	1.14	...
Belle Vue	...	...	...
Twoedside*	...	1.90	...
Stony Hill	...	3.56	...
Castleton Gardens	St. Mary	3.39	6.14
Dover	...	0.42	...
Annotto Bay	...	0.00	...
Water Valley	...	0.32	3.78
Quebec	...	0.85	...
New Ramble	...	0.99	3.04
Gayle	...	0.00	...
Llanrunny	...	0.10	...
Goshen	...	3.81	...
Rio Hee	St. Ann	9.35	...
Unity Valley	...	4.40	5.22
Albion	...	7.54	4.19
Bradfield	...	3.75	4.11
Drax Hall	...	0.08	2.43
Seville	...	0.09	...
Richmond Estate	...	0.00	...
Llandovery	...	0.08	...
Mean		1.92	4.68

NORTHERN DIVISION.

		APRIL.	
		1882.	Average.
		In.	In.
Lillyfield	St. Ann	1.02	...
Home Castle	...	2.45	...
Richmond Pen	...	3.73	...
Colehis Pen	Trelawny	3.01	...
Mabogany Hall	...	1.50	...

* Twoedside has an elevation of about 3,000 feet.

		APRIL.	
		1882.	AVERAGE.
		In.	In.
Hopewell	...	3.78	3.37
Brampton Bryan	...	1.19	2.42
Bryar Castle	...	1.56	2.23
Nightingale Grove	...	1.21	...
Braco	...	1.91	2.38
Arcadia	...	1.28	...
Lancaster	...	0.98	2.14
Vale Royal	...	1.45	2.80
Hyde Hall	Trelawny	1.91	...
Swanswick	...	1.26	...
Long Pond	...	1.42	...
Hyde	...	2.56	...
Belmont Pen	...	1.99	...
Georgia	...	0.36	2.19
Steelfield	...	0.38	...
Etingdon	...	0.73	...
Oxford	...	1.53	...
Cambridge	...	2.63	...
Spring	...	0.70	...
Lottery	...	2.23	2.06
Falmouth	...	3.63	1.80
Holland	...	3.95	...
Golden Grove	...	1.45	...
Green Park	...	1.50	...
Tilston	...	0.68	...
Orange Valley	...	0.00	2.20
Kent	...	0.13	...
Dundee	...	0.08	2.50
Gales Valley	...	0.40	2.06
Hampden	St. James	0.29	...
Greenwood	...	0.00	...
Lima	...	...	...
Content	...	...	2.45
Guildbro'	...	1.10	...
Spring Vale	...	3.55	4.48
Latium	...	...	...
Salters Hill	...	...	3.45
Success	...	0.00	2.11
Running Gut	...	0.10	1.56
Tryall	...	0.65	...
Irwin	...	...	2.58
Ironshore	...	0.55	...
Providence	...	...	...
Catherine Hall	...	2.74	...
Catherine Mount	...	3.06	2.99
Fairfield	...	3.52	...
Mean		1.56	2.51

WEST CENTRAL DIVISION.

		APRIL.	
		1882.	AVERAGE.
		In.	In.
Linstead	St. Catherine	1.14	...
Worthy Park	...	2.74	...
Chapelton	Clarendon	...	2.72
Pennants	...	...	...
Whitney	...	5.19	...
Cave Valley	St. Ann	2.47	4.55
Hanbury	Manchester	...	...
Mandeville	...	...	3.98
Marshall's Pen	...	7.17	...
Derry	...	11.40	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	11.26	...
Appleton	...	11.70	...
Maroon Town	St. James	4.00	...
Holland	St. Elizabeth	...	...
Y.S.	...	...	...

WEST CENTRAL DIVISION, Continued.

		APRIL.	
		1882.	Average.
		In.	In.
Ipswich	...	6.50	...
Kepp	...	9.01	...
Mount Charles	...	...	...
Mount Edgecombe	Westmoreland	4.55	...
Windsor Forest	...	14.62	...
Kew Park	...	4.68	...
Chester Castle	Hanover	6.83	...
Copse	...	2.90	...
Burnt Ground	...	2.60	...
Haughton Grove	...	5.10	...
Kempshot	St. James	4.03	...
Anchovy	...	3.07	...
Wiltshire	...	4.20	...
Round Hill	Hanover	1.85	...
Cacoon Castle	...	4.40	...
Sod Hall Pen	...	3.50	...
Golden Grove	...	...	...
Tryall	...	5.76	...
Carawina	Westmoreland	10.16	...
Sweet River	...	8.58	...
Roaring River*	...	9.15	...
Fort William	...	12.57	...
Mesopotamia	...	11.38	...
Cornwall	...	9.58	...
Windsor (Sav. la-Mar)	...	7.42	...
Frome	...	12.91	...
Belle Isle	...	9.63	...
Retreat	...	7.19	...
Kew Estate	Hanover	7.15	...
Haughton Court	...	5.24	...
Esher	...	...	...
Orange Cove	...	4.83	3.31
Prospect	...	6.48	...
Haughton Hall	...	...	...
Abingdon	...	6.52	...
Mean		6.22	3.64

SOUTHERN DIVISION.

		APRIL.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	0.00	...
The Abbey	...	1.14	...
Halberstadt	St. Andrew	...	...
Hope Plantation	...	3.63	2.43
Cherry Garden	...	5.79	...
King's House	...	2.57	...
Monaltrie	...	1.66	1.48
Director of Roads' Office, Kingston	...	0.46	1.19
Palisades Plantation	...	0.01	...
Plumb Point L. H.	...	0.00	1.13
Spanish Town	St. Catherine	2.79	...
Windsor Park	...	2.25	...
Hog Hole Pen	...	4.40	...
Headworks, R. C. C.	...	1.64	...
Cedars	...	...	...
Lodge Estate	...	1.02	...
Roden Pen	...	1.22	...
Halse Hall	Clarendon	0.91	...
Experiment	...	...	...
The Bog	...	2.24	...
Greenwich	...	...	...
Yarmouth	...	...	...
Denbigh	...	1.50	2.23
Farm Plantation	Manchester	2.50	...
Great Valley	...	...	...
Pepper	St. Elizabeth	9.14	...
Long Hill	...	17.24	...
Gilnock Hall	...	12.64	...

*On the 5th the Gang was drowned

SOUTHERN DIVISION, Continued.

		APRIL.	
		1882.	Average.
		In.	In.
Santa Cruz	St. Elizabeth	10.00	...
Bloomsbury	...	7.13	...
Fullerswood Park	...	...	3.64
Industry	...	...	...
Black River	...	3.82	3.10
Hodges	...	3.49	...
Font Hill	...	...	...
Mean		3.82	2.17

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		APRIL.	
		1882.	AVERAGE.
		In.	In.
North Eastern Division		2.61	4.68
Northern	"	1.52	2.51
West Central	"	4.30?	3.64
Southern	"	1.84	2.17
The Island		2.56	3.25

The Rainfall during April was below the average in the North-eastern and Northern Divisions: in the West Central and Southern the Rainfall was about the average, in consequence of a heavy fall in the central parts of the Parishes of St. Elizabeth and Westmoreland.

The greatest fall during the month was 17 inches recorded at Long Hill in St. Elizabeth.

In Trelawny and St. James what rain there was fell during the first ten days of the month; the rest of the month was dry.

From Hordley Mr. Harrison writes me:—

"I am glad to say the canes have been free from aphides this month, and the sprouts consequently are looking healthy and vigorous. The atmosphere has been extremely free from damp of an evening: and the sky has been remarkably bright and clear. Though the thermometer has been as low as 69° at times at night, we have been free from that chilly feeling that is often experienced at that temperature. I have not noticed any lightning; and only on two occasions have I heard thunder during the month, and then scarcely audible."

From Spring Garden, Mr. Espeut writes me:—"The aphids and sooty, fungoid blight (*cupnodium*) have done great injury to the canes. Young plants have been killed by thousands, and the mature canes have yielded a very inferior quality of juice. The growth of all others has been seriously checked and I can find no remedy for these pests."

Comparison of the mean results of the April observations at Kingston and the Cinchona Plantation.

		Kingston.	Cinchona Plant.
		In.	In.
Bar. pressure	7 a.m.	30.037	25.281
"	3 p.m.	29.976	25.259
Temperature	7 a.m.	77° 0	61° 2
"	3 p.m.	82.4	63.6
Dew point	7 a.m.	68.5	53.1
"	3 p.m.	70.7	60.7
Maximum Temperature		84.7	67.1
Minimum Temperature		70.1	57.3
Wind, direction		S.E. by E.	E.
" Miles per hour		4.5	0.9

The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°, that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the two Stations: their readings have all been corrected.

At New Haven Gap the mean Maximum and Minimum Temperatures were 69°.6 and 50°.8 respectively.*

At Worthy Park the average maximum temperature was 81°; the minimum 60°.

At King's House the average maximum temperature was 91°.0; the minimum 65°.7.

Kingston was very healthy during April, the death-rate being only 17.7 per thousand.

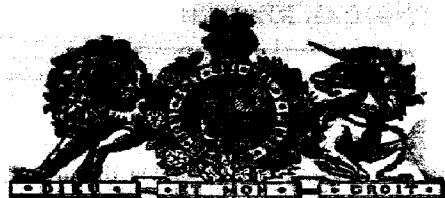
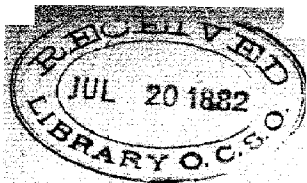
MAXWELL HALL.

Kempshot, May 19th.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.

* These temperatures last month were 68°.4 and 49°.8. The temperatures at the Cinchona Plantation were repeated for the New Haven Gap by mistake.



JAMAICA.

JUNE 29, 1882.

No. 18.

WEATHER REPORT

FOR THE MONTH OF MAY,

1882.

FROM THE JAMAICA GAZETTE.

June 22nd, 1882.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.
1882.

METEOROLOGICAL RESULTS FOR MAY, 1882.

METEOROLOGICAL RESULTS FOR MAY, 1882.

KINGSTON.	In.
Mean Pressure ...	30.004
" Temperature ...	79° 9
" Maximum Temp. ...	85° 9
" Minimum Temp. ...	72° 8
" Minimum Temp. on Grass ...	67° 0
" Range of Temp. ...	18° 1
" Direction of the Wind ...	S.E.
" Velocity of the Wind 5.6 Miles per Hour	
" Temp. of the Dew-point ...	71° 6
" Humidity ...	77
" Percentage of Cloud ...	43
Total Rainfall in inches	2.17

Average Weather :—Fair, with strong sea breezes
The highest temperature was 88° 3 recorded on the 31st ; the lowest was 67° 8 recorded on the 1st ; the extreme range was therefore 20° 5. The lowest temperature on the grass was 61° 8, recorded on the 1st.

THE RAINFALL FOR MAY 1882.

The average May Rainfall, given in the second columns for different stations, is taken from the article on Meteorology in the *Handbook of Jamaica* ; and, as there explained, it applies to the May Rainfall during the ten years from 1870 to 1879 inclusive.

NORTH EASTERN DIVISION.

		MAY.	
		1882.	Average.
		In.	In.
Morant Point L. H.	St. Thomas	8.82	9.26
Hordley	...	11.87	...
Leith Hall	...	6.43	...
Potosi	...	12.97	...
Boston	Portland	19.05	...
Port Antonio	...	9.73	...
Spring Garden	...	4.16	...
Chepstow	...	2.15	...
Woodstock	...	3.47	...
Cinchona Plantation	St. Andrew	3.43	9.72
New Haven Gap	...	7.30	...
Belle Vue	...	...	...
Tweedside	...	16.52	...
Stony Hill	...	7.11	...
Castleton Gardens	St. Mary	5.88	12.28
Dover	...	4.10	...
Annotto Bay	...	4.95	...
Water Valley	...	7.01	9.12
Quebec	...	4.41	...
New Ramble	...	6.48	8.81
Gayle	...	3.68	...
Llanrumny	...	2.87	...
Goshen	...	7.76	...
Rio Hoe	St. Ann	8.99	...
Unity Valley	...	4.96	11.15
Albion	...	4.72	8.62
Bradfield	...	2.54	9.60
Drax Hall	...	4.16	7.74
Seville	...	2.38	...
Richmond Estate	...	2.49	...
Llandoverly	...	2.42	...
Mean		6.41	9.58

NORTHERN DIVISION.

		MAY.	
		1882.	Average.
		In.	In.
Lillyfield	St. Ann	7.48	...
Home Castle	...	6.15	...
Richmond Pen	...	9.54	...
Colchis Pen	Trelawny	6.04	...
Mahogany Hall	...	6.17	...
Hopewell	...	6.04	7.39

NORTHERN DIVISION, continued,

		MAY.	
		1882.	Average.
		In.	In.
Brampton Bryan	...	4.15	7.27
Bryan Castle	...	5.22	6.74
Nightingale Grove	...	5.13	...
Braco	...	4.85	6.74
Arcadia	...	5.21	...
Lancaster	...	4.10	6.86
Vale Royal	...	4.22	8.09
Hyde Hall	...	6.97	...
Swanswick	...	6.20	...
Long Pond	...	6.72	...
Hyde	Trelawny	6.58	...
Belmont Pen	...	...	...
Georgia	...	4.18	7.99
Steelfield	...	4.92	...
Etingdon	...	5.86	...
Oxford	...	7.14	...
Cambridge	...	9.38	...
Spring	...	6.47	...
Lottery	...	7.25	8.15
Falmouth	...	2.42	6.57
Holland	...	3.85	...
Golden Grove	...	12.05	...
Green Park	...	3.21	...
Tilston	...	7.90	...
Orange Valley	...	2.30	6.70
Kent	...	2.75	...
Dundee	...	4.94	6.05
Gales Valley	...	9.30	8.16
Hampden	St. James	6.13	...
Greenwood	...	1.75	...
Lima	...	...	...
Content	...	...	8.93
Gullsbro	...	11.50	...
Spring Vale	...	13.92	12.02
Latium	...	...	...
Salter's Hill	...	...	12.93
Success	...	3.18	5.41
Running Gut	...	2.09	6.10
Tryall	...	3.20	...
Irwin	...	11.27	8.93
Ironshore	...	3.60	...
Providence	...	...	...
Catherine Hall	...	11.67	...
Catherine Mount	...	11.91	8.43
Fairfield	...	14.25	...
Mean		6.41	7.86

WEST CENTRAL DIVISION.

		MAY.	
		1882.	Average.
		In.	In.
Linstead	St. Catherine	2.39	...
Worthy Park	...	4.68	...
Chapelton	Clarendon	...	8.29
Pennants	...	...	...
Whitney	...	13.85	...
Cave Valley	St. Ann	6.50	11.93
Hanbury	Manchester	...	...
Mandeville	...	...	12.76
Marshall's Pen	...	13.62	...
Derry	...	15.80	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	17.95	...
Appleton	...	22.05	...
Maroon Town	St. James	13.48	...
Holland	St. Elizabeth	15.20	...
Y.S.	...	16.02	...
Ipswich	...	...	...
Kepp	...	16.81	...

WEST CENTRAL DIVISION, continued.

		APRIL	
		1882.	Average.
		In.	In.
Mount Charles	...	...	...
Mount Edgecombe	Westmoreland	6.27	...
Windsor Forest	...	17.61	...
Kew Park	...	16.51	...
Chester Castle	Hanover	14.08	...
Copae	...	...	...
Burnt Ground	...	...	...
Haughton Grove	...	18.47	...
Kempshot	St. James	17.87	...
Bandon	St. James	18.55	...
Anchovy	...	16.27	...
Wiltshire	...	18.86	...
Round Hill	Hanover	12.84	...
Cacoon Castle	...	...	...
Sod Hall Pen	...	...	...
Golden Grove	...	16.52	...
Tryall	...	8.86	...
Carawina	Westmoreland	10.99	...
Sweet River	...	6.98	...
Roaring River	...	15.54	...
Fort William	...	15.42	...
Mesopotamia	...	12.20	...
Cornwall	...	13.31	...
Windsor (Sav.-la-Mar)	...	9.11	...
Frome	...	13.70	...
Belle Isle	...	13.43	...
Retreat	...	7.30	...
Kew Estate	Hanover	14.28	...
Haughton Court	...	12.16	...
Esher	...	...	...
Orange Cove	...	14.56	8.49
Prospect	...	12.10	...
Haughton Hall	...	11.39	...
Abingdon	...	...	...
Mean		13.42	10.37

SOUTHERN DIVISION.

		MAY.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	3.27	...
The Abbey	...	7.31	...
Halberstadt	St. Andrew	...	...
Hope Plantation	...	2.95	5.85
Cherry Garden	...	3.54	...
King's House	...	1.17	...
Monaltrie	...	1.58	4.92
Director of Roads' Office, Kingston	...	...	4.82
Palisadoes Plantation	...	2.22	...
Plumb Point L. H.	...	2.41	4.64
Spanish Town	St. Catherine	1.79	...
Windsor Park	...	2.49	...
Hog Hole Pen	...	1.30	...
Headworks, R. C. C.	...	2.30	...
Cedars	...	3.19	...
Lodge Estate	...	...	...
Roden Pen	...	0.45	...
Halse Hall	Clarendon	...	...
Experiment	...	7.00	...
The Bog	...	7.08	...
Greenwich	...	...	...
Yarmouth	...	...	...
Denbigh	...	6.95	8.90
Farm Plantation	Manchester	18.85	...
Great Valley	...	...	...
Stones Hope	...	12.06	...
Pepper	...	9.81	...
Long Hill	...	6.74	...
Gilnock Hall	...	9.44	...

SOUTHERN DIVISION, continued.

		MAY.	
		1882.	Average.
		In.	In.
Santa Cruz	...	17.52	...
Bloomsbury	St. Elizabeth	17.79	...
Fullerswood Park	...	...	5.94
Industry	...	...	...
Black River	...	4.39	6.95
Hodges	...	5.53	...
Font Hill	...	...	...
Mean		6.13	6.00

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		MAY.	
		1882.	Average.
		In.	In.
North Eastern Division		5.33	9.58
Northern	"	5.96	7.86
West Central	"	9.76	10.37
Southern	"	3.83	6.00
The Island		6.22	8.45

The May rains have been very unequally distributed over the Island this year. There was a considerable fall at the extreme east of the Island about the middle of the month, but generally speaking the North-eastern and Southern divisions have missed the May rains. Mr. Morris writes me:—"The rainfall all along the Blue Mountain range appears to have been very partial and irregular this month, and owing to this and the prevalence of hot dry winds, Cinchona planting has been greatly impeded." The drought among the St. Andrew's Mountains has lowered the Hope River and rendered precautions necessary with reference to the water supply of Kingston.

In the West Central Division the May rains were both heavy and continuous averaging about 13 inches; the greatest fall (22 inches) occurred at Appleton. In Westmoreland the rivers were flooded, but subsided without doing damage. This distribution of the May rains seems to be entirely owing to the strength of the sea breezes, E.N.E. and E.S.E. on the Northern and Southern sides of the Island respectively, which tend to pile up the clouds above the west-central part of the Island. It is to be regretted that the force and direction of the wind cannot at present be registered and systematically reduced together with the Rainfall.

At Plumb Point Light House the upper gauge is 68 feet above the lower; these gauges registered 2.10 and 2.41 inches respectively.

From Hordley Mr. Harrison writes me;—"It is satisfactory to report that the canes have been free from aphides this month. During the first two weeks we had a good deal of rain with thunder and lightning; since then the weather has been dry, but cloudy and very hot."

There are no notes from Mr. Escent this month.

Mr. H. P. Thompson of Seville sends me the following:—"Aphis and Sooty blight (Capnodium) at Llan-doverly. Strong breeze E. by S.; very dry. Max. temp. during week ending June 3rd 90°, min. 78°."

As far as we are able to judge this blight is spreading westwards along the northern shore."

* It has been suggested to me that powdered sulphur should be tried as a remedy. The hop vines in Kent are attacked by a similar blight which is kept down or even got rid of by finely powdered sulphur showered upon the hops by a machine drawn between the rows.

Comparison of the mean results of the May observations at Kingston and the Cinchona Plantation..

		Kingston.	Cinchona Plan
		In.	In.
Bar. pressure	7 a.m.	30.024	25.280
"	3 p.m.	29.956	25.247
Temperature	7 a.m.	79°.7	62°.5
"	3 p.m.	83.3	64.3
Dew point	7 a.m.	70.8	57.0
"	3 p.m.	72.7	61.7
Maximum Temperature		85°.9	68.2
Minimum Temperature		72.8	58.7
Wind, direction		S.E.	Easterly.
" Miles per hour		5.6	2.6

The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°, that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the two Stations: their readings have all been corrected.

At New Haven Gap the mean maximum and minimum Temperatures were 74°.3 and 54°.8 respectively.

Mr. J. M. Farquharson of Long Hill gives me the following account of an Earthquake which was generally felt in St. Elizabeth:—

"An earthquake was felt here at 1.5 a.m., on the morning of the 5th May, which I have not seen noticed in any of the newspapers. There was only one shock, rather slight, but the rumbling was loud."

At Worthy Park the average maximum temperature was 83°; the minimum 62°.

At King's House the average maximum temperature was 91°.4; the minimum 67°.4.

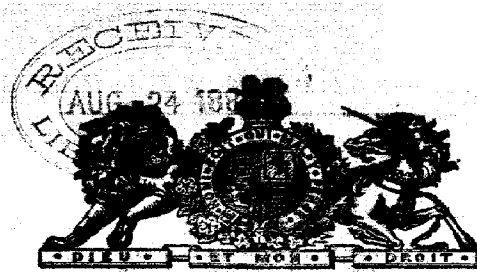
Kingston was very healthy during May, the death-rate being only 24.6 per thousand.

MAXWELL HALL.

Kempshot, June 16th.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

JULY 31, 1882.

No. 14.

WEATHER REPORT

FOR THE MONTH OF JUNE,

1882.

FROM THE JAMAICA GAZETTE.

July 20th, 1882.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

JAMAICA:

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1882.

METEOROLOGICAL RESULTS FOR JUNE, 1882.

KINGSTON :—

NORTHERN DIVISION.

Mean Pressure	...	30.031
" Temperature	...	82° 2
" Maximum Temp.	...	88° 7
" Minimum Temp.	...	74° 8
" Minimum Temp. on Grass	...	68° 3
" Range of Temp.	...	13° 9
" Direction of the Wind	...	S.E. by E.
" Velocity of the Wind	7.6 Miles per Hour	
" Temp. of the Dew-point	...	73° 5
" Humidity	...	75
" Percentage of Cloud	...	51
Total Rainfall in inches	...	0.76

Average Weather :—Fine, with strong sea breezes
The highest temperature was 90° 9 recorded on the 3rd ; the lowest was 71° 1 recorded on the 18th ; the extreme range was therefore 19° 8. The lowest temperature on the grass was 64° 7 recorded on the 6th.

THE RAINFALL FOR JUNE 1882.

The average June Rainfall, given in the second columns for different stations, is taken from the article on Meteorology in the *Handbook of Jamaica* ; and, as there explained, it applies to the June Rainfall during the ten years from 1870 to 1879 inclusive.

NORTH EASTERN DIVISION.

		JUNE.	
		1882.	Average.
		In.	In.
Morant Point L. H.	St. Thomas	0.68	6.24
Hordley	...	0.92	...
Leith Hall	...	0.51	...
Potosi	...	...	...
Boston	Portland	...	...
Port Antonio	...	4.73	...
Spring Garden	...	2.31	...
Chepstow	...	1.54	...
Woodstock	...	1.68	...
Cinchona Plantation	St. Andrew	0.76	6.33
New Haven Gap	...	0.53	...
Belle Vue	...	1.04	...
Tweedside	...	1.94	...
Stony Hill	...	0.89	...
Castleton Gardens	St. Mary	3.00	8.24
Dover	...	2.85	...
Annotto Bay	...	1.86	...
Water Valley	...	0.24	4.88
Quebec	...	...	...
Port Maria	...	2.43	...
New Ramble	...	1.74	4.23
Gayle	...	1.20	...
Llanrumny	...	1.17	...
Goshen	...	1.25	...
Rio Hoe	St. Ann	2.45	...
Unity Valley	...	0.95	8.70
Albion	...	1.15	5.58
Bradfield	...	1.01	4.86
Drax Hall	...	0.48	3.26
Seville	...	0.94	...
Richmond Estate	...	0.89	...
Llandoverly	...	0.93	...
Mean		1.40	5.81

		JUNE.	
		1882.	Average.
		In.	In.
Lillyfield	St. Ann	1.40	...
Home Castle	...	1.62	...
Richmond Pen	...	3.75	...
Colchis Pen	Trelawny	2.50	...
Mahogany Hall	...	0.60	...
Hopewell	...	0.69	3.62
Brampton Bryan	...	0.67	2.65
Bryan Castle	...	0.08	2.48
Nightingale Grove	...	0.56	...
Braco	...	0.00	2.37
Arcadia	...	0.25	...
Lancaster	...	0.05	2.30
Vale Royal	...	0.17	3.39
Hyde Hall	...	0.20	...
Swanswick	...	0.68	...
Long Pond	...	0.50	...
Hyde	...	0.98	...
Belmont Pen	...	...	...
Georgia	...	0.16	2.94
Steelfield	...	0.17	...
Etingdon	...	0.25	...
Oxford	...	0.09	...
Cambridge	...	0.27	...
Spring	...	0.20	...
Lottery	...	0.20	3.39
Falmouth	...	0.32	2.01
Holland	...	0.15	...
Golden Grove	...	...	...
Green Park	...	0.20	...
Tilston	...	...	...
Orange Valley	...	...	2.80
Kent	...	...	...
Dundee	...	...	3.26
Gales Valley	...	...	5.66
Hampden	St. James	1.49	...
Greenwood	...	...	...
Lima	...	0.96	...
Content	...	1.17	3.73
Guildsbro'	...	...	...
Spring Vale	...	8.54	9.21
Latium	...	...	...
Salter's Hill	...	...	8.23
Success	...	0.46	2.05
Running Gut	...	0.33	2.32
Tryall	...	0.50	...
Irwin	...	0.60	6.26
Ironshore	...	...	...
Providence	...	...	...
Catherine Hall	...	...	...
Catherine Mount	...	1.61	6.55
Fairfield	...	...	...
Mean		0.90	3.96

WEST CENTRAL DIVISION.

		JUNE.	
		1882.	Average.
		In.	In.
Linstead	St. Catherine	1.68	...
Worthy Park	...	2.03	...
Chapelton	Clarendon	...	4.92
Pennants	...	...	...
Whitney	...	...	...
Cave Valley	St. Ann	4.32	5.76
Hanbury	Manchester	...	...
Mandeville	...	...	6.46
Marshall's Pen	...	1.40	...
Derry	...	3.40	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	...	...
Appleton	...	6.92	...

WEST CENTRAL DIVISION, *continued*.

		JUNE.	
		1882.	Average.
		In.	In.
Maroon Town	St. James	8.96	...
Holland	St. Elizabeth ...	8.54	...
Y.S.	...	4.35	...
Ipswich	...	6.83	...
Kepp	...	2.04	...
Mount Charles	...	...	...
Mount Edgcombe	Westmoreland	3.77	...
Windsor Forest	...	...	...
Kew Park	...	8.75	...
Chester Castle	Hanover	7.71	...
Copae	...	7.03	...
Burnt Ground	...	...	...
Haughton Grove	...	5.53	...
Kempshot	St. James	7.95	...
Bandon	...	8.86	...
Anchovy	...	3.96	...
Wiltshire	...	...	...
Round Hill	Hanover	...	...
Cacoon Castle	...	4.09	...
Sod Hall Pen	...	...	...
Golden Grove	...	10.80	...
Tryall	...	2.24	...
Carawina	Westmoreland	...	...
Sweet River	...	5.36	...
Paradise Pen	...	12.53	...
Roaring River	...	...	...
Fort William	...	10.62	...
Mesopotamia	...	11.92	...
Cornwall	...	6.35	...
Windsor (Sav.-la-Mar)	...	8.06	...
Frome	...	11.96	...
Belle Isle	...	12.19	...
Retreat	...	7.21	...
Kew Estate	Hanover	5.59	...
Haughton Court	...	2.54	...
Esher	...	...	...
Orange Cove	...	1.70	7.72
Prospect	...	6.26	...
Haughton Hall	...	7.59	...
Abingdon	...	7.74	...
Mean		6.92	6.22

SOUTHERN DIVISION.

		JUNE.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	0.60	...
The Abbey	...	1.37	...
Halberstadt	St. Andrew	3.37	...
Hope Plantation	...	0.21	4.17
Cherry Garden	...	0.05	...
King's House	...	0.18	...
Monaltrie	...	0.05	3.53
Director of Roads' Office, Kingston	...	0.44	3.32
Palisadoes Plantation	...	0.24	...
Plumb Point L. H.	...	0.23	3.79
Spanish Town	St. Catherine	0.08	...
Windsor Park	...	0.14	...
Hog Hole Pen	...	0.00	...
Headworks, R. C. C.	...	0.00	...
Cedars	...	...	...
Lodge Estate	...	...	...
Roden Pen	...	0.00	...
Halse Hall	Clarendon	0.00	...
Experiment	...	...	...
The Bog	...	0.59	...
Greenwich	...	...	...
Yarmouth	...	...	...
Denbigh	...	0.10	5.67

SOUTHERN DIVISION, *continued*.

		JUNE.	
		1882.	Average.
		In.	In.
Farm Plantation	Manchester	0.50	...
Great Valley	...	...	...
Stones Hope	...	1.26	...
Pepper	St. Elizabeth	0.00	...
Long Hill	...	0.75	...
Gilnock Hall	...	1.72	...
Santa Cruz	...	0.99	...
Bloomsbury	...	2.38	...
Fullerswood Park	...	...	2.64
Industry	...	...	...
Black River	...	1.98	2.68
Hodges	...	2.18	...
Font Hill	...	...	...
Mean		0.72	3.69

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		JUNE.	
		1882.	Average.
		In.	In.
North Eastern Division		1.17	5.81
Northern	"	0.82	3.96
West Central	"	2.63	6.22
Southern	"	0.72	3.69
Mean		1.34	4.92

In the West Central Division there were rains during June, but the rest of the Island suffered from drought.

The failure of the May rains, and this continued drought during June, have done great injury to the Coffee and Pimento crops. Mr. Morris writes me;—"The drought continues in the Blue Mountain Districts with great severity and much harm is accruing to Coffee and Cinchona properties, as well as to the small settlers". Further precautions have been taken with reference to the water supply of Kingston. In Kingston the Sea-breeze was unusually strong during June; but generally, the easterly winds were strong all over the Island.

At Plumb Point Light House, the upper gauge is 68 feet above the lower: these gauges registered 0.20 and 0.23 respectively.

From Hordley Mr. Harrison writes me:—"Aphides have appeared on the canes during the whole month, but only to a slight extent. Young plants and ratoon sprouts are suffering greatly from the dry weather. Temperature 68° to 70° at 4 a.m., and 88° to 90° at noon. I may mention for the information of my fellow-planters that I have tried the flowers of sulphur, as suggested in your report for the month of May, several times during many years, but regret to say on no occasion with any perceptible beneficial results."

From Seville Mr. H. P. Thompson writes me:—

"*Copmodium* spreading at Llandoverry. Bar. steady at 30; very strong breeze E; Max. 88°; Min. 77°."

Comparison of the mean results of the June observations at Kingston and the Cinchona Plantation.

		Kingston.		Cinchona Plantation.	
		In.	In.	In.	In.
Bar. pressure	7 a.m.	30.048	25.313		
"	3 p.m.	29.981	25.301		
Temperature	7 a.m.	81° 7	63° 6		
"	3 p.m.	86.0	68.9		
Dew point	7 a.m.	72.2	57.2		
"	3 p.m.	75.9	62.4		
Maximum Temperature		88.7	72.8		
Minimum Temperature		74.8	60.2		
Wind, direction		S.E. by E.	E.		
" Miles per hour		7.6	1.3		

The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°, that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the two Stations: their readings have all been corrected.

The Thermometer at the Cinchona Plantation whose bulb is 6 feet below the surface, indicated a temperature of 63°.5 from three readings during June. In October last the temperature was 63°. It thus appears that the 6 foot underground thermometer remains nearly steady at the mean annual temperature of the air at the Cinchona Plantation. The importance to science of carefully recording such an instrument in order to detect cycles of variation of temperature now becomes fully apparent.

At New Haven Gap the average maximum and minimum temperatures were 77°.5 and 55°.1 respectively.

At Worthy Park the average maximum temperature was 85°.; the minimum 61°.

At King's House the average maximum temperature was 95°.6; the minimum 69°.1.

At Black River there was a squall on the 26th, causing vessels to drag their anchors: the Trade winds were very strong that day, 241 miles being registered at Kempshot.

Our readers will have noticed that the Rainfall at Rio Hoe is generally much larger than at places in the immediate neighbourhood. In reply to my inquiries, Mr.

E. G. Barrett has kindly informed me that the gauge is correct and properly registered, and that the large Rainfall there is due to the situation of the place with respect to the surrounding hills. He says "Rio Hoe lies at the mouth of a little valley sloping down from the backbone of the Island, and diverging from it at a very acute angle; and down this valley comes very heavy rains which deluge Rio Hoe, and Rio Hoe alone." Further west, there is another place, Spring Vale, where there is a very large Rainfall due to local configuration.

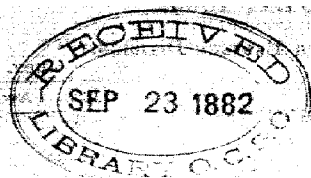
During the coming Hurricane months information respecting disturbances passing Jamaica will be added to the daily weather telegrams as last year. These daily telegrams are posted at the Offices in Black River, Sav-la-Mar, Lucea, Montego Bay, Falmouth, St. Ann's Bay, Port Maria, Port Antonio, and Morant Bay; they contain the reading of the Barometer at Kingston at 7 a.m. &c, and by comparing local readings with the Kingston readings the correctness of the additional information for any day may generally be tested by those who have superior barometers. The Weather Office in Kingston will be supplied with daily telegrams from the Kempshot Observatory, Montego Bay.

MAXWELL HALL.

Kempshot, July 13th.

Note.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

AUGUST 25, 1882.

No. 15.

WEATHER REPORT

FOR THE MONTH OF JULY,

1882.

FROM THE JAMAICA GAZETTE.

August 24th, 1882.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

JAMAICA:

GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKE STREET, KINGSTON.

1882.

METEOROLOGICAL RESULTS FOR JULY, 1882,

KINGSTON:—

NORTH EASTERN DIVISION.

JULY.

					1882. | Average	
	7 a.m.	3 p.m.	Mean	Mean	In.	In.
Barometric pressure	30.071	30.000	30.085	30.052	St. Thomas	3.38
Temperature of the air	81° 1	85° 4	77° 8	81° 4	St. Thomas	4.41
Dew-point	72.2	74.7	72.8	73.2	St. Thomas	2.28
Humidity	75	71	85	77	St. Thomas	...
Maximum Temp.	...	...	...	88.4	St. Thomas	6.60
Minimum Temp.	...	...	...	73.9	St. Thomas	4.85
Range of Temp.	...	...	...	14.5	St. Thomas	1.98
Minimum Temp. on Grass	...	...	...	68.4	St. Thomas	1.44
Direction of the Wind	...	...	...	E.S.E.	St. Thomas	1.55
Velocity of Wind in Miles per Hour	...	...	...	6.1	St. Thomas	0.95
Percentage of Cloud	...	...	...	41	St. Thomas	4.78
Total Rainfall, 2.03 inches					St. Thomas	0.71
Average Weather :—Fair at first, afterwards cloudy.					St. Thomas	0.88
The highest temperature was 90° 8 recorded on the 12th and 26th; the lowest was 71° 8 recorded on the 7th; the extreme range was therefore 19° 0. The lowest temperature on the grass was 65° 7 recorded on the 1st.					St. Thomas	1.36
CINCHONA PLANTATION:—					St. Thomas	6.68
Barometric Pressure	7 a.m.	...	25.337	...	St. Thomas	2.26
Temperature of the air	7 a.m.	...	65° 5	...	St. Thomas	1.50
Dew-point	7 a.m.	...	68.1	...	St. Thomas	1.06
Maximum Temperature	7 a.m.	...	57.2	...	St. Thomas	0.38
Minimum Temperature	7 a.m.	...	63.3	...	St. Thomas	1.04
Direction of Wind	7 a.m.	...	72° 2	...	St. Thomas	2.40
Velocity of Wind in Miles per hour	7 a.m.	...	61.1	...	St. Thomas	1.59
Means					St. Thomas	2.03

NORTHERN DIVISION.

JULY.

	1882. | Average.	
	In.	In.
Barometric Pressure	7 a.m.	28.274
Temperature of the air	7 a.m.	73° 2
Dew-point	7 a.m.	67.6
Maximum Temperature	...	81.5
Minimum Temperature	...	70.1
Direction of Wind	...	E.
Velocity of Wind in miles per hour	...	7.0
NOTE—The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32°, that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the three Stations; their readings have all been corrected. The following are the elevations of these Stations above the sea-level:—		
Kingston (Rae Town)	5 feet	
Kempshot Observatory	1773 "	
Cinchona Plantation	4850 "	
At New Haven Gap (in the Blue Mountain Range, elevation about 5,600 feet) the mean maximum and minimum temperatures were 77° 0 and 55° 5 respectively.		
At King's House (on the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 94° 8 and 69° 6 respectively.		
THE RAINFALL FOR JULY 1882.		
The average July Rainfall, given in the second columns for different Stations, is taken from the article on Meteorology in the <i>Handbook of Jamaica</i> ; and, as there explained, it applies to the July Rainfall during the ten years from 1870 to 1879 inclusive.		
Lillyfield	St. Ann	...
Home Castle	...	0.35
Richmond Pen	...	2.82
Colchis Pen	Trelawny	8.61
Mahogany Hall	...	2.20
Hopewell	...	4.16
Brampton Bryan	...	1.70
Bryan Castle	...	1.06
Nightingale Grove	...	3.46
Braco	...	1.20
Arcadia	...	2.27
Lancaster	...	1.75
Vale Royal	...	2.40
Hyde Hall	...	4.48
Swanswick	...	4.46
Long Pond	...	4.30
Hyde	...	6.81
Belmont Pen
Georgia	...	2.24
Steelfield	...	1.95
Etingdon	...	1.91
Oxford	...	1.36
Cambridge	...	3.40
Spring
Lottery	...	2.60
Falmouth	...	0.82
Holland	...	1.97
Golden Grove	...	4.20
Green Park	...	1.81
Tilston	...	2.19
Orange Valley	...	0.93

Northern Division, continued.

		JULY.	
		1882.	Average.
		In.	In.
Kent	Trelawny	1.08	...
Dundee	...	1.98	3.91
Gales Valley	...	2.60	5.30
Hampden	St. James	1.77	...
Greenwood	...	0.30	...
Lima	...	...	...
Content	...	...	2.54
Gullsbro'	...	2.75	...
Spring Vale	...	8.96	8.29
Tatum	...	5.92	...
Salter's Hill	...	...	6.99
Success	...	0.30	1.51
Running Gut	...	0.21	1.11
Tryall	...	0.67	...
Irwin	...	...	3.07
Ironshore.	...	1.18	...
Providence	...	...	...
Catherine Hall	...	3.30	...
Catherine Mount	...	4.32	4.89
Fairfield	...	3.69	...
Means		2.67	3.46

WEST CENTRAL DIVISION.

		JULY.	
		1882.	Average.
		In.	In.
Linstead	St. Catherine	5.69	...
Worthy Park	...	2.76	...
Chapelton	Clarendon	...	4.37
Pennants	...	...	...
Whitney	...	3.82	...
Cave Valley	St. Ann	3.33	5.15
Hanbury	Manchester	...	...
Mandeville	...	...	6.08
Marshall's Pen	...	4.15	...
Derry	...	5.10	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	9.78	...
Appleton	...	8.18	...
Maroon Town	St. James	19.27	...
Holland	St. Elizabeth	5.58	...
Y.S.	...	9.20	...
Ipswich	...	9.50	...
Kepp	...	10.81	...
Mount Charles	...	...	...
Mount Edgecombe	Westmoreland	9.31	...
Windsor Forest	...	9.05	...
Kew Park	...	13.26	...
Chester Castle	Hanover	13.03	...
* Copac	...	(2.30)	...
Burnt Ground	...	10.35	...
Haughton Grove	...	10.20	...
Kempshot	St. James	4.61	...
Bandon	...	8.43	...
Anchovy	...	4.80	...
Wiltshire	...	4.90	...
Round Hill	Hanover	4.30	...
Cacoon Castle	...	7.74	...
Sod Hall Pen	...	11.10	...
Golden Grove	...	13.95	...
Tryall	...	3.91	...
Carawina	Westmoreland	8.16	...
Sweet River	...	4.66	...
Paradise Pen	...	5.43	...
Roaring River	...	13.45	...
Fort William	...	11.67	...
Mesopotamia	...	10.51	...
Cornwall	...	9.97	...

* Clearly some mistake here.

West Central Division, continued.

		JULY.	
		1882.	Average.
		In.	In.
Windsor (St. J. Mar)	Westmoreland	6.17	...
Fontaballs	...	10.79	...
Frome	...	10.19	...
Belle Isle	...	6.81	...
Retreat	...	7.94	...
Kew Estate	Hanover	5.84	...
Haughton Court	...	1.80	...
Esher	...	...	...
Orange Cove	...	1.30	5.52
Prospect	...	11.86	...
Haughton Hall	...	15.52	...
Abingdon	...	10.83	...
Phoenix	...	14.06	...
Means		6.93	5.56

SOUTHERN DIVISION.

		JULY.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	1.55	...
The Abbey	...	1.86	...
Halberstadt	St. Andrew	2.11	...
Hope Plantation	...	2.44	3.35
Cherry Garden	...	4.98	...
King's House	...	2.72	...
Monaltrie	...	0.78	2.73
Director of Roads' Office, Kingston	...	1.79	2.03
Palisadoes Plantation	...	3.11	...
Plumb Point L. H.	...	2.36	2.17
Spanish Town	St. Catherine	0.79	...
Windsor Park	...	1.49	...
Hog Hole Pen	...	0.79	...
Headworks, R. C. C.	...	2.63	...
Cedars	...	5.81	...
Lodge Estate	...	...	...
Roden Pen	...	0.86	...
Halse Hall	Clarendon	0.32	...
Experiment	...	...	...
The Bog	...	...	...
Greenwich	...	1.20	...
Yarmouth	...	...	...
Denbigh	...	0.47	3.24
Farm Plantation	Manchester	3.05	...
Great Valley	...	...	...
Stones Hope	...	2.16	...
Pepper	St. Elizabeth	5.13	...
Long Hill	...	5.34	...
Gilnock Hall	...	...	...
Santa Cruz	...	4.47	...
Bloomshury	...	10.52	...
Fullerswood Park	...	...	3.99
Industry	...	...	...
Black River	...	5.15	5.16
Hodges	...	6.38	...
Font Hill	...	...	...
Means		2.97	3.24

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		JULY.	
		1882.	Average.
		In.	In.
North Eastern Division		1.61	4.65
Northern	"	2.39	3.46
West Central	"	2.93	5.56
Southern	"	2.71	3.24
Means		2.41	4.23

The Rainfall during July was only one-half the average: and, excepting the West Central Division, the drought was severely felt throughout the island.

Mr. Morris writes me:—"The higher coffee proper-
ties give promise of fair crops, but the lower fields have suffered severely from drought. The Cinchona Plantations have stood the drought much better than was expected, and with fair showers in August and September the plants put out in May will be safe.

"A short, but sharp, shock of Earthquake, apparently moving from East to West, was felt at the Cinchona Plantation on the 27th July, at 2.50 p.m.: the weather all day was close and warm."

At Hordley and Llandoverly the *aphides* were but few in number and going away slowly.

At Plum Point Light House, the upper gauge is 68 feet above the lower: these gauges registered 2.12 and 2.36 inches respectively.

Kingston was healthy during July: there were 18 deaths from Phthisis, the strong winds during that month and the preceding month of June tending to increase the deaths from that disease.

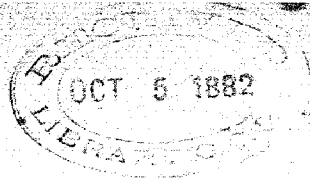
The Jamaica Weather Service is greatly indebted to General W. B. Hazen, U. S. A., Chief Signal Officer, for granting us Storm-warnings from the Windward Islands. The U. S. Observer at Key West has been instructed to send back to Jamaica, at the expense of the U. S. Signal Service, notices of all hurricanes which he may receive from the West India Stations.

MAXWELL HALL,

Kempshot, August 17th.

NOTE.—It is requested that all Rainfall returns and other communications be addressed to me at Montego Bay until further notice.

M. H.



JAMAICA.

SEPTEMBER 22, 1882.

No. 16.

WEATHER REPORT

FOR THE MONTH OF AUGUST,

1882.

FROM THE JAMAICA GAZETTE.

September 21st, 1882.

WITH ADDITIONS AND CORRECTIONS.

Published by Authority.

JAMAICA:
GOVERNMENT PRINTING AND STATIONERY ESTABLISHMENT, 79 DUKES STREET, KINGSTON.

1882

METEOROLOGICAL RESULTS FOR AUGUST, 1882.

METEOROLOGICAL RESULTS FOR AUGUST, 1882.

NORTH EASTERN DIVISION.

KINGSTON :—

	7 a.m.	3 p.m.	11 p.m.	Mean
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
Barometric pressure ...	30.033	29.987	30.048	30.023
Temperature of the air ...	79° 2	85° 1	76° 8	80° 4
Dew-point ...	71.7	74.3	73.1	73.0
Humidity ...	78	72	88	79
Maximum Temp. ...				88° 4
Minimum Temp. ...				73.6
Range of Temp. ...				14.8
Minimum Temp. on Grass ...				64.9
Direction of the Wind ...				S.E
Velocity of Wind in Miles per Hour ...				4.2
Percentage of Cloud ...				54

Total Rainfall, 1.56 inches.

Average Weather :—Fair—with showers

The highest temperature was 92° 2 recorded on the 27th ; the lowest was 71° 2 recorded on the 17th ; the extreme range was therefore 21° 0. The lowest temperature on the grass was 64° 1 recorded on the 27th.

CINCHONA PLANTATION :—

		In.
Barometric Pressure	7 a.m.	25.310
"	3 p.m.	25.302
Temperature of the air	7 a.m.	63° 9
"	3 p.m.	67.0
Dew-point	7 a.m.	56.0
"	3 p.m.	62.3
Maximum Temperature		71° 4
Minimum Temperature		60.7
Direction of Wind		E.
Velocity of Wind in Miles per hour		1.9

KEMPSHOT OBSERVATORY :—

		In.
Barometric Pressure	7 a.m.	28.238
Temperature of the air	7 a.m.	73° 3
Dew-point	7 a.m.	68.2
Maximum Temperature		81.8
Minimum Temperature		70.6
Direction of Wind		E.
Velocity of Wind in miles per hour		7.0

* Note.—The Barometric pressure is the reading of the Barometer corrected for instrumental error and reduced to 32° that of Kingston being further reduced to the sea-level. The Thermometers are similarly exposed at the three Stations ; their readings have all been corrected. The following are the elevations of these Stations above the sea-level :—

Kingston (Rae Town) 5 feet

Kempshot Observatory 1773 "

Cinchona Plantation 4350 "

At New Haven Gap (in the Blue Mountain Range, elevation about 5,600 feet) the mean maximum and minimum temperatures were 71° 1 and 65° 4 respectively.

At King's House (on the plains of Liguanea, elevation about 400 feet) the mean maximum and minimum temperatures were 92° 9 and 69° 4 respectively.

THE RAINFALL FOR AUGUST, 1882.

The average August Rainfall, given in the second columns for different Stations, is taken from the article on Meteorology in the *Handbook of Jamaica* ; and, as there explained, it applies to the August Rainfall during the ten years from 1870 to 1879 inclusive.

AUGUST.

1882. | Average.

	In.	In.
Morant Point F. H.	2.62	5.46
Hordley	7.12	...
Leith Hall	4.11	...
Potosi	...	...
Boston	6.66	...
Port Antonio	6.13	...
Spring Garden	4.23	...
Chapstow	2.97	...
Woodstock	7.10	...
Cinchona Plantation	5.85	8.18
New Haven Gap	5.89	...
Belle Vue	5.34	...
Twecdside	12.02	...
Stony Hill	8.18	...
Castleton Gardens	8.01	10.48
Dover	4.97	...
Annotto Bay	...	...
Water Valley	...	4.24
Quebec	...	...
Port Maria	2.66	...
New Ramble	1.29	5.69
Gayle	5.28	...
Llanrumny	1.23	...
Goshen	...	...
Rio Hoe	3.08	...
Unity Valley	5.87	5.33
Albion	5.07	5.85
Bradfield	1.17	5.05
Drax Hall	2.08	3.81
Seville	1.20	...
Richmond Estate	0.73	...
Llandovery	1.18	...
Means	4.50	6.01

NORTHERN DIVISION.

AUGUST.

1882. | Average.

	In.	In.
Lillyfield	1.80	...
Homa Castle	5.90	...
Richmond Pen	5.68	...
Colchis Pen	4.85	...
Mahogany Hall	...	...
Hopewell	5.02	5.50
Brampton Bryan	3.81	4.64
Bryan Castle	2.75	3.54
Nightingale Grove	4.29	...
Braco	1.71	3.88
Arcadia	2.56	...
Harmony Hall	1.24	...
Lancaster	2.24	3.87
Vale Royal	2.93	5.44
Hyde Hall	2.28	...
Swanswick	4.81	...
Long Pond	4.55	...
Hyde	3.92	...
Georgia	2.84	4.64
Steelsfield	2.55	...
Etingdon	2.15	...
Oxford	1.18	...
Cambridge	1.97	...
Spring	3.25	...
Lottery	0.95	3.96
Falmouth	1.75	3.00
Holland	0.80	...
Golden Grove	2.55	...
Green Park	1.19	...
Tilston	2.27	...
Orange Valley	1.21	3.57
Kent	1.50	...
Dundee	1.39	5.36
Gales Valley	5.45	6.88

NORTHERN DIVISION, continued.

		AUGUST.	
		1882.	Average.
		In.	In.
Hampden	St. James	1.93	...
Greenwood	...	1.46	...
Lima	...	...	...
Content	...	...	5.58
Gullsbro'	...	6.70	...
Spring Vale	...	10.35	12.84
Latium	...	9.20	...
Salter's Hill	...	...	8.47
Success	...	1.40	2.59
Cinnamon Hill	...	2.17	...
Rose Hall	...	2.07	...
Running Gut	...	2.77	2.83
Tryall	...	5.12	...
Irwin	...	...	6.40
Ironshore	...	4.47	...
Providence	...	...	...
Catherine Hall	...	...	...
Catherine Mount	...	3.40	8.31
Fairfield	...	3.85	...
Means		3.20	5.31

WEST CENTRAL DIVISION.

		AUGUST.	
		1882.	AVERAGE.
		In.	In.
Linstead	St. Catherine	3.28	...
Worthy Park	...	6.36	...
Chapelton	Clarendon	...	10.28
Pennants	...	...	...
Whitney	...	5.80	...
Cave Valley	St. Ann	7.33	8.68
Hanbury	Manchester	...	...
Mandeville	...	...	10.60
Marshall's Pen	...	7.82	...
Derry	...	10.70	...
Bogue	St. Elizabeth	...	...
Barton Isles	...	6.63	...
Appleton	...	11.86	...
Maroon Town	St. James	...	...
Holland	St. Elizabeth	3.14	...
Y.S.	...	10.03	...
Ipswich	...	...	...
Kepp	...	8.58	...
Mount Charles	...	6.05	...
Mount Edgewcombe	Westmoreland	4.85	...
Windsor Forest	...	13.37	...
Kew Park	...	14.92	...
Chester Castle	Hanover	10.34	...
Copae	...	6.10	...
Burnt Ground	...	6.80	...
Haughton Grove	...	6.97	...
Kempshot	St. James	5.56	...
Bandon	...	3.20	...
Anchovy	...	5.07	...
Wiltshire	...	8.13	...
Round Hill	Hanover	3.05	...
Cacoon Castle	...	5.84	...
Sod Hall Pen	...	7.25	...
Golden Grove	...	8.17	...
Tryall	...	3.70	...
Carawina	Westmoreland	9.38	...
Sweet River	...	6.70	...
Paradise Pen	...	...	...
Roaring River	...	...	...
Fort William	...	19.47	...
Mesopotamia	...	11.70	...
Cornwall	...	9.17	...
Windsor (Sav.-la-Mar)	...	6.10	...
Fontabelle	...	9.44	...

WEST CENTRAL DIVISION, continued.

		AUGUST.	
		1882.	Average.
		In.	In.
Frome	Westmoreland	9.87	...
Belle Isle	...	8.29	...
Retreat	...	7.24	...
Kew Estate	Hanover	5.43	...
Haughton Court	...	2.97	...
Esher	...	...	...
Orange Cove	...	2.23	7.45
Prospect	...	...	...
Haughton Hall	...	6.08	...
Abingdon	...	7.57	...
Phoenix	...	...	...
Means		7.49	9.25

SOUTHERN DIVISION.

		AUGUST.	
		1882.	Average.
		In.	In.
Albion Hospital	St. Thomas	4.68	...
The Abbey	...	5.00	...
Halberstadt	St. Andrew	4.54	...
Hope Plantation	...	4.84	8.13
Cherry Garden	...	7.94	...
King's House	...	4.94	...
Monaltrie	...	3.39	6.36
Director of Roads' Office, Kingston	...	1.23	6.01
Palisadoes Plantation	...	1.35	...
Plumb Point L. H.	...	1.15	5.32
Spanish Town	St. Catherine	2.94	...
Windsor Park	...	2.14	...
Hog Hole Pen	...	2.51	...
Headworks, R. C. G.	...	3.43	...
Cedars	...	...	...
Lodge Estate	...	0.29	...
Roden Pen	...	2.59	...
Halse Hall	Clarendon	1.70	...
Experiment	...	...	...
The Bog	...	2.17	...
Greenwich	...	...	...
Yarmouth	...	...	...
Denbigh	...	...	5.80
Farm Plantation	Manchester	5.60	...
Great Valley	...	4.75	...
Stones Hope	...	5.05	...
Pepper	St. Elizabeth	...	...
Long Hill	...	4.43	...
Gilnock Hall	...	...	...
Santa Cruz	...	6.90	...
Bloomsbury	...	7.65	...
Fullerswood Park	...	...	6.12
Industry	...	...	...
Black River	...	2.79	7.21
Hodges	...	4.86	...
Font Hill	...	...	...
Means		3.80	6.42

COMPARATIVE TABLE.

(Based upon the "Average" Stations only.)

		AUGUST.	
		1882.	AVERAGE.
		In.	In.
North Eastern Division		3.93	6.01
Northern	"	3.50	5.31
West Central	"	6.14	9.25
Southern	"	3.20	6.42
Means		4.19	6.76

The Rainfall generally over the Island during August was thus still considerably below the average.

Mr. Morris writes from the Cinchona Plantations:—

"We have had fair light showers throughout the month which have been most beneficial to all cultivators in these mountains. The actual rainfall (5.35 inches) is, however, much below the average. . . . Very little difference is therefore apparent as yet in the springs and rivers although the tanks have been somewhat replenished."

A hailstorm occurred on the 17th at Whitney Estate, which is 1327 feet above the level of the sea and on the borders of Clarendon and Manchester. Mr. G. A. Douet writes from there as follows:—"On Thursday the 17th August at one o'clock in the afternoon a sharp hailstorm accompanied by a strong easterly breeze passed over here and lasted for just half-an-hour. About fifty of my banana trees were blown down and the fall of rain during the time was 1.15 inches."

Mention may be made here to the usual arrangements

during the hurricane months for warning Kingston, when necessary, of approaching danger. On such an occasion, a Special Notice will be posted in the Commercial Exchange, at Mr. John McDonald's store in Harbour Street and in the Colonial Secretary's Office; this notice will also be telegraphed round the Island. The danger flags of the United States Signal Service will be hoisted at the Commercial Exchange and the Colonial Secretary's Office; these flags are red with black squares in their centres. It is also intended to take advantage, if possible, of the offer made by the "Gleaner" to print off several thousand handbills containing this notice and to distribute them through the Town.

ROBT. JOHNSTONE.

Colonial Secretary's Office, Kingston,
18th September, 1882.

NOTE.—It is requested that all *Rainfall* returns be sent to the address of Mr. Maxwell Hall at Montego Bay as usual.